

What is claimed is:

1. A method for manufacturing a plasma display panel, comprising the steps of:

laying a front substrate and a rear substrate on each  
5 other with a sealing frit therebetween;

heating said front substrate, said rear substrate and said sealing frit in a chamber and exhausting impurity gas from both of said substrates by lowering internal pressure of said chamber;

10 melting said sealing frit in said chamber by further heating said front substrate, said rear substrate and said sealing frit; and

solidifying said sealing frit in said chamber and sealing up said front substrate and said rear substrate.

15 2. The method for manufacturing a plasma display panel according to claim 1, wherein said melting said sealing frit and said sealing up said front and rear substrates are continuously carried out in said chamber.

3. The method for manufacturing a plasma display  
20 panel according to claim 1, wherein an exhaust pipe is connected to said rear substrate with a fixing frit, and at least one of said sealing frit and said fixing frit is made of crystallized glass.

4. The method for manufacturing a plasma display  
25 panel according to claim 2, wherein an exhaust pipe is connected to said rear substrate with a fixing frit, and at least one of said sealing frit and said fixing frit is made of crystallized glass.

5. The method for manufacturing a plasma display panel according to claim 1, further comprising a step of heating said front and rear substrates while depressurizing an inside of said chamber after said sealing up said front and rear substrates.

6. The method for manufacturing a plasma display panel according to claim 3, further comprising a step of heating said front and rear substrates while depressurizing an inside of said chamber after said sealing up said front and rear substrates.

7. The method for manufacturing a plasma display panel according to claim 4, further comprising a step of heating said front and rear substrates while depressurizing an inside of said chamber after said sealing up said front and rear substrates.

8. The method for manufacturing a plasma display panel according to claim 1, further comprising a step of filling a space between said front and rear substrates outside said chamber with a discharge gas.

9. The method for manufacturing a plasma display panel according to claim 1, wherein a level difference is provided to said sealing frit, and, said impurity gas is exhausted from a space between said front and rear substrates outside through gaps formed between said front and rear substrates by said level difference in said exhausting said impurity gas.

10. The method for manufacturing a plasma display panel according to claim 9, wherein said laying said front

and rear substrates on each other comprises the steps of applying a first continuous frit to an edge of one of said front and rear substrates and selectively applying a second frit onto said first frit.

5           11. The method for manufacturing a plasma display panel according to claim 1, wherein said exhausting said impurity gas comprises a step of introducing at least one kind of gas selected from the group consisting of an oxygen gas, an inert gas, and dry air into said chamber.

10           12. The method for manufacturing a plasma display panel according to claim 1, wherein said melting said sealing frit and said hardening said sealing frit each comprise a step of lowering internal pressure of said chamber.

15           13. The method for manufacturing a plasma display panel according to claim 3, wherein said melting said sealing frit and said hardening said sealing frit each comprises a step of lowering internal pressure of said chamber.

20           14. The method for manufacturing a plasma display panel according to claim 4, wherein said melting said sealing frit and said hardening said sealing frit each comprises a step of lowering internal pressure of said chamber.

25           15. The method for manufacturing a plasma display panel according to claim 1, wherein said melting said sealing frit and said hardening said sealing frit each comprises a step of introducing at least one kind of gas

20250922 01:22:02

selected from the group consisting of an oxygen gas, an inert gas, and dry air into said chamber.

16. The method for manufacturing a plasma display panel according to claim 3, wherein said melting said  
5 sealing frit and said hardening said sealing frit each comprises a step of introducing at least one kind of gas selected from the group consisting of an oxygen gas, an inert gas, and dry air into said chamber.

17. The method for manufacturing a plasma display  
10 panel according to claim 4, wherein said melting said sealing frit and said hardening said sealing frit each comprises a step of introducing at least one kind of gas selected from the group consisting of an oxygen gas, an inert gas, and dry air into said chamber.

15

10050972 0122002